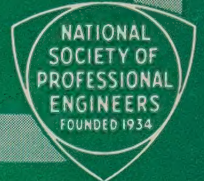


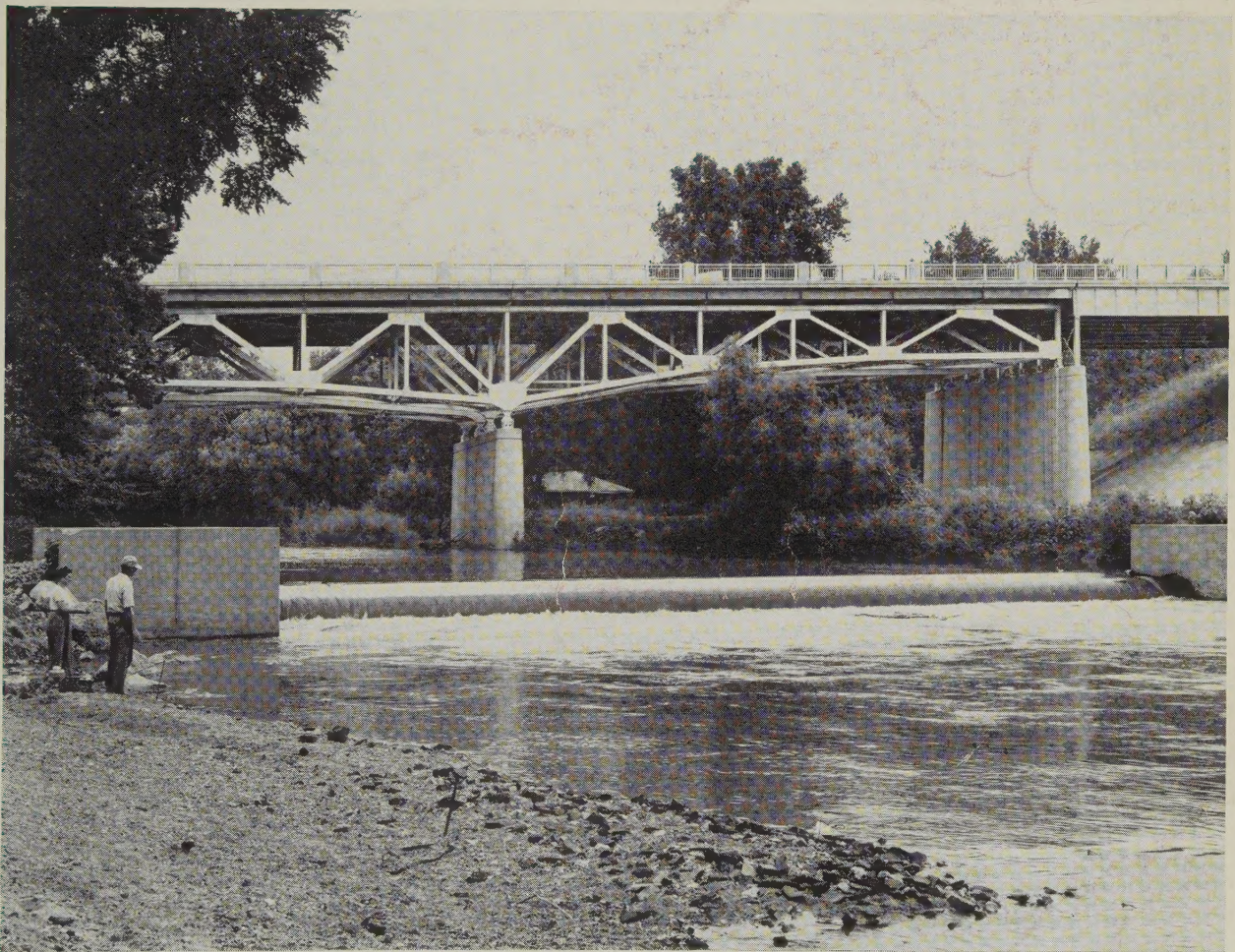


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# *the* **ILLINOIS ENGINEER**



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BRIDGE, WEST OF DANVILLE ON ROUTE 150—ILLINOIS DIVISION OF HIGHWAYS

(See Page 3)



THE ILLINOIS ENGINEER, OCTOBER, 1951—VOLUME XXVII, NO. 10

Address all communications to the Society at 631 East Green St., Champaign, Illinois.  
The Society is not responsible for statements made or opinions expressed in this publication.



# ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers

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\* This refers to Annual Meeting at which present term expires.

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# Of Professional Interest

## THE ILLINOIS ENGINEER—October Issue

Summer is over. Fall activities are showing the acceleration which always comes with cooler weather. This is evident in the Society in a very concrete manner. The self-cover summer issues of the ILLINOIS ENGINEER ended in September. With the October issue begins again the publication of the large two-color magazine.

In this issue, please note particularly the paper by Kevin Burke, Technical Adviser to the Department of Registration and Education. The Professional Engineer should be interested in the problems that face that Department. Mr. Burke discusses some of them. The paper was originally given before the 66th Annual Meeting last February, and is published here for the benefit of those who were unable to hear Mr. Burke.

EDITOR.

## OFFICIAL I.S.P.E. NOMINEES FOR 1952-53

In accordance with the provisions of the Constitution of the Illinois Society of Professional Engineers, the nominating committee submits the names of A. Douglas Spicer, Kewanee, for President, and Raymond G. Brichler, Belleville, for Vice-President.

These nominations not only potentially continue the succession of Society executives who have been previously active in Society affairs, but Mr. Brichler's nomination also gives the southern part of the state an opportunity to be represented in the highest offices after a lapse of several years.

EARL E. COOPER

JAMES WHELAN

GEORGE E. EKBLAW, *Chairman*  
*Nominating Committee*

## BOARD OF DIRECTION BUSINESS

Ben F. Muirheid has been selected by Champaign County Chapter to serve as their Chapter Representative during the absence of E. W. Lehmann. Professor Lehmann has been granted a sabbatical leave and will be gone until about March 1st. Ben is no stranger to the Board; he has pinch-hit for Professor Lehmann several times during the past year.

A. Robert Jones, Junior Representative on the Board of Direction has returned to service and is now Captain Jones. The Chapters are now naming the Engineers-In-Training or Juniors, two of whom will be nominated by the Past Presidents' Committee. The two nominees will be on a separate ballot to be elected by the young engineers during the annual election.

## COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 185.5 for August, 1951. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

## RESUME OF THE 1951 LEGISLATIVE ACTIVITY

Once again the Illinois Society had a very successful year in connection with the bills that were considered or were introduced during the 67th Illinois General Assembly.

If any individual were to be singled out for the time and effort spent in the interests of the Society, credit should be given to Bob Wallace. President Gunlock gave valuable off the record help in his two conferences with Governor Stevenson. Many others performed real service for the Society in "watchdogging," seeing the right people, following the progress of bills, getting the needed amendments written, introduced and adopted, and being of general help when needed. All in all, the Society fared extremely well through volunteer help by its members.

Assistant Secretary Roberts spent one day a week in Springfield during the session, usually Wednesdays, attending hearings or in conference. He won many new friends for the Society and strengthened good relations between the Legislature and professional engineers.

A partial list of bills of interest to engineers considered by the Legislature follows:

C. K. Willett sponsored H. B. 744 amending the Mechanics Lien Law to give protection to professional engineers in mechanics lien action. The bill was approved on July 11th.

The Plumbers Bill, H.B. 665, was amended to exempt professional engineers from the act. The bill was allowed to become law without the Governor's signature on July 26th. The Governor made some caustic comments about the Plumbers Bill.

Three bills amending the Architect's Act were unsuccessful. H. B. 564 and H. B. 960 were tabled June 15th and S. B. 648 was tabled June 12th.

H. B. 392, which removed the "grandfather clause" from the Professional Engineering Act, was approved July 9th.

\*H. B. 311 creating a State Civil Defense Agency and authorizing the creation of local organizations for civil defense was approved July 9th.

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## READ THE ADVERTISEMENTS

### SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 631 East Green Street, Champaign, Illinois.  
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\*S. B. 464—Boiler Inspection Bill. Amended to provide for a professional engineer on board. Approved August 7th.

\*H. B. 53. Permits municipal construction and operation of water purification plants. Tabled May 7th.

H. B. 73. Fair Employment Practices Commission. Tabled June 15th.

\*H. B. 198. Provides for the securing of a qualified engineer by county boards to make cost estimates. Approved June 20th.

\*H. B. 213. Legalizes the employment of a city manager in cities under 500,000 population. Approved July 9th.

\*S. B. 37. Creates Crab Orchard Commission. Vetoed August 7th.

\*S. B. 95. Amends Section 3 of an act to create sanitary districts and to provide sewage disposal. Stricken from calendar April 5th.

\*S. B. 107. Authorizes townships to build and operate waterworks and/or sewage works systems. Approved June 25th.

\*S. B. 120. Creates a Motor Vehicle Laws Commission to make a study of laws, conditions of the highways, etc. Approved June 21st.

S. B. 148. Creates a Toll Road Commission. Failed to pass in House on third reading June 30th.

S. B. 158. Amends Section 26a of the Counties Act to allow a levy of .01% to make maps and plots for assessment purposes. Tabled June 27th.

### Summary

Of the many bills studied by the Society, those bills which were detrimental to the interests of Professional Engineers were successfully sidetracked and those which were beneficial and desirable were made into law. It can be said without successful dispute that the Society fared well at the hands of the 67th Illinois General Assembly.

It is a pleasure to record that the Legislative Stag promoted by Capital Chapter did much to cement friendly relations between the members of the General Assembly and the Illinois Society of Professional Engineers. We hope that this kind of a meeting becomes a biennial affair.

\* In the interest of brevity and for clarification, filed means that a bill is allowed to become law without the Governor's signature; tabled with a date means that the bill was laid on the Speaker's table and was not called up again during the session; approved means that the bill was signed by the Governor; vetoed means that the bill was rejected by the Governor with or without a veto statement; stricken from the calendar means that the Assembly rejects any further action; died in committee means that the committee did not take action either for or against to bring the bill before the Assembly.

Only by scrutinizing oneself, by assaying one's abilities, and determining the reason for one's reactions can one improve one's quality.

—Clarence Budington Kelland

## VOX SECRETARII

Assistant Secretary Roberts

### Membership

The decelerated rate of increase in Society membership has been of growing concern to the officers for several months. Therefore, a Fall membership program was set up and presented to the chapter membership chairmen the last week of September. While this program was set up for a week's duration, it does not mean that after all the tumult and the shouting dies the members of the various chapters go into hibernation for the balance of the year. The purpose of a week's intensive program is frankly, to dissolve the stagnation which developed during the past summer. That each chapter needs help membershipwise is clearly shown in the table.

September 19, 1951

### MEMBERSHIP BY CHAPTERS

| Chapter               | May, 1950 | Sept. 1951 | Net Number Increase | % of Increase      |
|-----------------------|-----------|------------|---------------------|--------------------|
| Ambraw.....           | 42        | 43         | 1                   | 2.3                |
| Capital.....          | 189       | 190        | 1                   | .5                 |
| Central Illinois..... | 143       | 140        | -3                  | -2.1               |
| Champaign County..... | 143       | 160        | 17                  | 11.9               |
| Chicago.....          | 483       | 488        | 5                   | 1.0                |
| Dukane.....           | 59        | 67         | 8                   | 13.5               |
| Egyptian.....         | 56        | 57         | 1                   | 1.8                |
| Illinois Valley.....  | 56        | 61         | 5                   | 8.9                |
| Joliet.....           | 63        | 75         | 12                  | 19.0               |
| Kewanee.....          | 60        | 65         | 5                   | 8.3                |
| Lake County.....      | 78        | 86         | 8                   | 9.7                |
| Madison County.....   | 48        | 55         | 7                   | 14.6               |
| Peoriarea.....        | 41        | 44         | 3                   | 7.3                |
| Rockford.....         | 63        | 76         | 13                  | 48.5               |
| Rock River.....       | 108       | 93         | -12                 | -11.0              |
| St. Clair.....        | 84        | 77         | -7                  | -8.3               |
| No chapter.....       | 92        | 76         | -16                 | -17.4              |
| Total.....            | 1808      | 1856       | 48                  | 2.65               |
|                       |           |            | (net)               | (over-all average) |

### Junior Representative

A. Roberts Jones who has been Junior Representative on the Board of Direction has returned to service in the Army and is a captain at Saulte Saint Marie, Michigan. The temporary loss of Bob means that a new Junior Representative must be elected. As was done when Mr. Jones was elected, a ballot will be sent to Engineers-in-Training, Juniors and Students at the same time the ballots go out at the annual election of officers. A short biographical sketch of the two nominees will be given next month.

### Miscellany

It begins to look as though there will be at least six Republican candidates for Governor with no word as to whether Governor Stevenson will seek reelection. . . . Several members have sons or daughters in college. These items are of general interest. Please send them in to the Editor. . . . One chapter has already laid the framework for a ladies' auxiliary. How about your chapter?

If you make mistakes, it will be more to your credit if you make a new one each time.

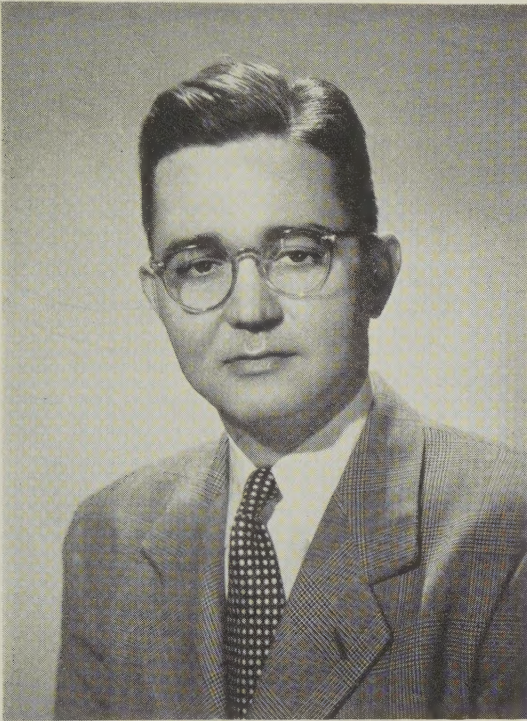


### COVER PICTURE

The cover picture this month shows the bridge recently completed by the Illinois Division of Highways over the north fork of the Vermilion River just west of Danville on Route S. B. I. 150. The structure consists of a three-span continuous truss for the main crossing with spans of 108, 144 and 108 feet. The approaches are made up of a simple plate girder span of 97' 3" and two-span continuous I-beams, 43' 9" and 43' 9".

This is typical of some of the recent bridges built by the Highway Department.

### NEW BRIDGE ENGINEER—ILLINOIS DIVISION OF HIGHWAYS



Walter E. Hanson, Member N. S. P. E.  
Bridge Engineer, Illinois Division of Highways

Mr. Walter E. Hanson has recently taken over the position of Bridge Engineer with the Illinois Division of Highways, made vacant by the retirement of Mr. George F. Burch who had held the position since 1917.

Mr. Hanson assumes the duties of his new position well equipped by training and experience to meet the important responsibilities involved. He received a B.S. degree in Civil Engineering from Kansas State College in 1939 and the M.S. degree from the University of Illinois in 1947.

He had a number of years experience with Howard, Needles, Tammen and Bergendoff, Consulting Bridge Engineers of Kansas City. During the war he served as a lieutenant (j.g.) in the U. S. Navy. After the war he returned to the University of Illinois as Assistant Professor and later as Associate Professor of Civil Engineering. He is co-author with Professors Peck and Thornburn of a two-volume book, "Elements of Foundation Engineering."

Mr. Hanson has many friends among the students and alumni of the Department of Civil Engineering, University of Illinois, and all of his friends both in and out of the Society wish him every success in his new undertaking.

### RESULTS ON CONSTITUTIONAL AMENDMENT CHANGES

Information from the tellers committee in charge of counting the votes on the eleven Illinois Society Constitutional Amendment changes indicates that all eleven proposals were voted "yes" by a substantial majority. Time does not permit a detailed report now but the report will be made in an early issue.

### NEW MEMBERS FOR JUNE THROUGH SEPTEMBER, 1951

#### National

- Carl J. Kopp, 1830 W. 105th Street, Chicago 43, Illinois (Chicago)
- Harper Millard, 1157 W. Lincoln Street, Freeport, Illinois (Rockford)
- Norman A. Rosen, 712 Seward Street, Evanston, Illinois (Chicago)
- A. L. R. Sanders, 10729 Hale Avenue, Chicago 43, Illinois (Chicago)
- Gene H. Utterback, 728 Noyes Street, Evanston, Illinois (Chicago)
- Howard F. West, 261 Onida Street, Joliet, Illinois (Joliet)

#### E-I-T

- Charles T. Duffey, 3011 N. LaPorte, Melrose Park, Illinois (Chicago)
- James G. Greanias, 1274 N. Union, Decatur, Illinois (Central Illinois)
- Jerome R. Iwinski, 868 S. Park Street, Springfield, Illinois (Capital)
- John E. Pearah, 1035 Altgeld Street, Chicago 14, Illinois (Chicago)
- Edwin F. Schwalbe, 480 N. 32nd, R. R. 5, Decatur, Illinois (Central Illinois)
- Y. Eugene Yamamoto, 317 S. Seventh, Springfield, Illinois (Capital)

#### Affiliate

- Henry S. Gregory, 1306 Evelyn Street, Rockford, Illinois (Rockford)
- Donald R. Linton, Glenn Avenue, Marseilles, Illinois (Illinois Valley)
- Marvin L. Merritt, 924 N. Glenn Oak, Peoria, Illinois (Peoriarea)
- Clifford L. Nelson, 1022 23rd Street, Rockford, Illinois (Rockford)

#### Junior

- Henry O. Johnson, 150 N. Wacker Drive, Chicago, Illinois (Chicago)

#### Transfer State to National

- Charles N. Debes, S '46, Rockford Chapter
- Lewis E. Soldan, S '46, Chicago Chapter

#### Transfer E-I-T to National

- Lee E. Stickler, E-I-T '49, Capital Chapter



## SOME THOUGHTS ON ENGINEERS AND THE UNIONS

L. M. KEOUGHAN, Chicago Chapter

Every once in a while somebody reminds us that Mathew Wohl of the A. F. of L. aroused the universal resentment of engineers with his crack that engineers are "just hired help." A statement, we think, that has been accorded a great deal more notice than it deserves. Engineers, of course, are overwhelmingly employees. We are not sure how to evaluate "just hired help" but we suspect an invidious comparison of engineers who are "just hired" with other people who work under contracts negotiated by their unions. Here, we must admit, is a significant distinction. Engineers must acknowledge the processes of democracy even when, as in this case, they seem to have lagged in the evolution. This statement may be challenged and, while not a proof it is a pertinent argument, that it is generally agreed that engineers' salaries compare much less favorably with the trades today than they did 25 years ago.

But engineers already are too much preoccupied with such comparisons with the unions. They have their own future calling for constructive effort. Besides, unions are not necessarily to be completely disassociated from those virtues of integrity, ability, and progressiveness which engineers admire. They have their place in the social order and apparently are here to stay. Like all human institutions they merit discussion, pro and con. But discussion of them by engineers speaking for the profession should be on the level of broad comprehension, judgment, and responsibility.

Nor does the situation of engineers in unions call for unqualified judgments. Many reputable engineers are in unions not because they lacked professional instincts but because, in their situations, membership in unions was the answer to their problems. We must admit that at the present time the profession is unable to recognize this situation effectively.

In speaking of this situation we must not confuse a moral issue with a matter of professional ethics. We are concerned with the latter. As such it is merely a matter for speculation until a code is set up and the profession has the power to enforce it.

The individual engineer's situation, which permits him to hold forth in a magisterial vein on matters actually the personal concern of others, is usually a matter of luck, not infrequently linked with an absence of those attributes of courage, independence, and free judgment ideally the birthright of an educated man in a democracy.

But this is not to infer that we agree with Mathew Wohl. Rather we wish to emphasize that controversies are futile. Professional recognition when it comes will not be the reward of winning arguments but will be accorded by public opinion. And a large segment of that public opinion is represented by organized labor.

## Obituaries

The Illinois Society of Professional Engineers notes with regret the death of two of its long time members.

Mr. Walter H. Flood, member I.S.P.E. (1922) and N.S.P.E. (1938) and President of Walter H. Flood and Co., inspection and testing laboratories, died on April 25th, last. He was a consultant in the field of chemical engineering.

Mr. Arthur L. Webster, member I.S.P.E. (1905) and N.S.P.E. (1947) was Superintendent of Highways of DuPage County and City Engineer of Wheaton, Illinois. He was a Past President of DuKane Chapter.

### CAPITAL CHAPTER HAS UNUSUAL PROGRAM E-I-T's Direct Chapter Night

Capital Chapter's engineer-in-training members conducted and sponsored the July 31, 1951, meeting of ISPE's Springfield group. A special ladies night was planned by the young engineers. Following a business meeting, conducted by the E-I-T's, movie entertainment was presented after which a "social hour" was held, coffee and doughnuts being served for refreshments. About 40 members and guests were present in the Palm Room of the Abe Lincoln hotel.

Among the major items of interest were the special committee reports on "air pollution" and legislation.

Sherril Nutt, Illinois Division of Highways, was chairman of the meeting as "president pro-tempore"; Harry Beams, Springfield Boiler Company, was Vice-President and Program Director; Rudolph Sandoval, Illinois Division of Highways, functioned as Secretary; and Carl Wieland of Crawford, Murphy, and Tilly, occupied the post of Treasurer. Sherril Nutt was elected by the junior group to represent the young members on the Chapter executive committee.

### BIG MARKET

The highway transportation industry furnishes a direct market for one-half of the nation's malleable iron, four-fifths of its rubber, three-fourths of its plate glass, nine-tenths of its gasoline, one-fifth of its copper and zinc, and almost nine-tenths of the domestic lead production. In addition, it is estimated that 40 million square feet of upholstery leather, over a million bales of cotton and 66.7 million yards of upholstery cloth are used annually.

Say all you have to say in the fewest possible words or your reader will be sure to skip them; and in the plainest possible words, or he will certainly misunderstand them.

—Ruskin

Precise knowledge is the only true knowledge and he who does not teach exactly does not teach at all.

—Henry Ward Beecher



# The Administration of the Illinois Registration Acts

KEVIN BURKE

*Technical Adviser, Department of Registration and Education*  
(Presented at the 66th Annual Meeting)

On behalf of Noble J. Puffer, Director of the Department of Registration and Education, and Charles F. Kervin, Superintendent of Registration, I would like to express our appreciation of your invitation to appear before this meeting. It has been our experience that personal relationships which are established by gatherings such as this, between representatives of the Department of Registration and Education and the various professional organizations, are productive of a mutual understanding of our problems. You know that there is someone in the Department with whom you are acquainted and to whom you can turn if you need assistance of any kind. We, in turn, feel free to call on you for information of a technical nature, to facilitate enforcement of the several licensing acts.

In this connection, let me first point out generally the scope and extent of the Department's functions in the field of professional and trade licensure, and the reason why such functions are centered in the Department of Registration and Education. Prior to 1917, whenever the General Assembly determined that a particular occupation should be regulated for the protection of the public health, safety, or welfare, or to prevent fraud, a new and independent agency or board was established to handle the administration of the licensing act. As a result there was a multiplicity of agencies in the executive branch of government, without any central or coordinating agency in control, except the Governor. It is needless to add that this haphazard system also resulted in the waste of public funds.

In 1917, the General Assembly enacted the Civil Administrative Code which provided for the reorganization of the executive branch of the State Government, and established the various Code Departments with specialized functions. A Director, appointed by the Governor, was to be the executive officer of each department and directly responsible to the Governor. In subsequent years, new departments were added and new functions were assigned to existing departments until at the present time there are thirteen of the Code Departments charged with the execution of executive power under the Governor.

The registration of professional and trade groups is concentrated in the Department of Registration and Education. There are exceptions—for instance, insurance brokers and solicitors are licensed by the Department of Insurance; securities' brokers are licensed by the Secretary of State, and Attorneys-at-Law are licensed by the Supreme Court of Illinois.

The Department of Registration and Education is charged with the administration of acts regulating the following professions and trades: Public Accountants, Architects, Barbers, Beauty Culturists, Chiropodists, Dentists, Private Detectives, Funeral Directors and Embalmers, Horseshoers, Land Surveyors, Medical Doctors, Osteopaths, Chiropractors, Mid-wives, Registered Nurses, Optometrists, Pharmacists, Plumbers (until the recent Supreme Court decision which declared the Illinois Plumbing License Law invalid), your own group of Professional Engineers, Public Health Nurses, Real Estate Brokers and Salesmen, Structural Engineers, Veterinarians. In addition, the Division of Registration of the Department administers the Uniform Narcotic Drug Act which requires licensure of manufacturers and wholesalers of narcotic drugs, and the Fireworks Regulation Law which requires licensure of fireworks manufacturers.

With the many and varied duties of the Department in the administration of these various acts, you can readily understand the magnitude of the task. There are some persons who may not realize what I am pointing out.

The Department maintains an inspection staff of forty-six investigators, whose duties include investigation of complaints against both licensed and unlicensed persons. In the former case, it would involve revocation of license proceedings before the Department and in the latter case, criminal prosecution. Twenty-four investigators operate under the supervision of the Chicago office and cover 21 northern Illinois counties. Twenty-two investigators cover the downstate 81 counties, the larger force in northern Illinois is necessitated because of the Chicago metropolitan area.

I have explained the Department's function in detail for the purpose of affording some background in connection with a discussion of the Illinois Professional Engineering Act.

I have heard of remarks made to one of your local groups to the effect that there is no enforcement of the Professional Engineering, Structural Engineering and Architectural Acts in this state, but that the other professional licensing acts are enforced. I would like to correct this statement, and clarify the situation. I have checked the docket in my office and since the effective date of the Illinois Professional Engineering Act on July 20, 1945, there have been no complaints filed in the Department alleging any violation of this Act. There is no way in which a field force of 46 persons can perform



enforcement duties in connection with any act unless persons licensed under that act are of some aid in detecting and reporting violations. The Department stands ready to carry on from there, to initiate criminal proceedings against any alleged violators. We would therefore appreciate your cooperation in advising us of any violations which may come to your attention.

We have been successful in prosecuting some violators of the Architectural Act, but it is essential to remember that before any State's Attorney will proceed with a criminal prosecution, he demands satisfactory evidence and in many instances, such is not readily available or obtainable. In addition, there are instances in which prosecutors consider some technical violations as not being in the public interest, and are reluctant to proceed against what they consider minor transgressors of the law. If a prosecutor refuses to act on any violation, then the hands of the Department are tied. The Attorney General will not intervene unless there is a flagrant dereliction of duty.

This brings us to the point of inquiring what should be the remedy for this situation, so far as enforcement is concerned, and we believe we have the answer. We have drafted amendments to all of the licensing acts to provide that in addition to the penalties already contained therein, the Director of the Department, through the State's Attorney or the Attorney General, may apply for an injunction in any court of competent jurisdiction to restrain any person from violating any provisions of these acts. If, after an injunction is issued, the person who is restrained continues to violate it, then the court may assess any punishment of fine or imprisonment, without limitation, for contempt of court. It can be readily seen that this will constitute the most effective deterrent to violators that can be devised. Proof of the pudding is in the eating—we have less difficulty in the enforcement of the provisions of the Dental Practice Act than any other law in the Department because there is such authority in that act.

This solution or remedy, of course, is intended to apply to these acts as they are now written, and its purpose is to facilitate enforcement. I would like to suggest, however, that this solution does not go to the heart of the problem. As you know, we who are charged with the responsibility of administration and enforcement are not engineers and architects. It is difficult for me, as a lawyer, unschooled in any of the professions here under consideration, to make an interpretation of the definitions and limitations contained in the Engineering and Architectural Acts. I have not made any study of legislation in other jurisdictions but it would appear that some other states may have adopted regulatory acts which would be less difficult for an agency of state government to administer and enforce. I have heard of suggestions that the various groups in the engineering and architectural fields should reach some common understanding so that they can work together to bring about some corrective legislation. We would wholeheartedly

welcome and endorse such a move, and would cooperate in every way possible. We can do the job if we have the tools.

If you are successful in reaching some understanding with the other groups, I have a suggestion to offer—there is only one consideration to keep in mind and that is—"will our actions better serve to protect the public health, safety, or welfare?" If your purpose, or the purpose of any group, is to consolidate or gain special or selfish privilege, then you are wrong. If, however, you operate on the premise that your actions are intended to further the protection of the public health and safety, you will not wander far astray.

Let me explain why this is so. The right to engage in any lawful enterprise or occupation is one which is guaranteed by both the State and Federal constitutions. It constitutes a property right. It is only when the particular occupation bears a direct relationship to the public health, safety, or welfare that the rights of the individual must give way to the rights of society as a whole. It is at this point that government may intervene by the exercise of the police power for the common good. Government may set up particular requirements which must be met by persons who wish to engage in such an occupation.

Now, incidental benefits may accrue to persons who are authorized by law to engage in certain practices but I would emphasize the term "incidental." Any regulatory act is enacted for the public good and not for the benefit of a particular group. Our Illinois courts have had occasion to make some harsh remarks about attempts to create a monopoly under the guise of exercising the police power. The most recent case in point is the decision on the Illinois Plumbing License Law by our Supreme Court, which invalidated the act for that very reason.

There is one last matter in connection with the enforcement of the Illinois Professional Engineers Act—there are approximately 15,000 registered professional engineers in this State. The Act provides, in Section 18, the grounds upon which the license of a professional engineer may be suspended or revoked. In the five and one-half years this act has been in force, there has been one revocation due to the fact that the engineer was committed to a mental institution. One other revocation is pending, due to the engineer's conviction of a felony. None of the other professional groups can equal that record.

Gentlemen, I may not have placed as much emphasis on the Illinois Professional Engineering Act as you would have liked in these remarks, but I shall be happy to try to answer any questions you may have concerning it.

I want to thank you again for the opportunity of appearing before you and meeting some of you, and if there is any way that we in the Department may be of service to you, we shall be pleased to do so.



# News From Chapter

## Kewanee Chapter

Regular meeting of the Kewanee Chapter, I.S.P.E., was held in the dining room of the Hotel Kewanee on March 20, 1951, President Lee Osborne presiding. Following the dinner the minutes of the January meeting were read and approved.

Report of the committee on changing the name of chapter was read by Chairman E. D. Quirke. The following names were suggested: Triangle and West Central. Moved by Louis Papmeier that action on the change in name be postponed until the next monthly meeting; seconded. Motion to amend that a vote be taken at this meeting by Mr. Farmer, seconded by Bronson. Motion to amend was withdrawn. Moved by Mr. Stanley that action of members be submitted to the general membership for mail vote. Seconded by A. D. Spicer.

Moved by Sorenson that the name of West Central be adopted. This motion was lost. Moved by Spicer that the names submitted by committee be submitted to general membership for vote by mail, amended by Fulper that the committee recommendations include the name of Kewanee and a blank line for any write-in name. Amendment carried. Motion carried. Moved by Spicer that the results of the election be referred to the next regular meeting. Motion carried.

Cliff Missman spoke on the prospects of Kewanee Chapter assisting in obtaining a refresher course in Professional Engineering examinations for this area, stating that the University of Illinois would provide instructors for an 11-week course from May until October when the next engineers' examinations will be held. E. D. Quirke stated that Bradley University was doing the same thing.

Mr. Louis Papmeier, chapter representative, gave a talk on affairs of the Chapter and of the state meeting at Urbana.

Mr. John Fulper introduced Mr. Virgil E. Gunlock, President of the Illinois Society of Professional Engineers. President Gunlock's talk centered on the national meeting at Washington, D. C., and of the discussion with officials at the Pentagon Building on Manpower. Among the interesting subjects which President Gunlock spoke on was the alarming shortage of graduate engineers and the coming shortage in graduates in the following years. This year's graduates in engineering will total about 38,000, which is what the profession will require. This amount will decrease to 19,000 in 1954, which is far below the requirements. This shortage is predicted until 1965. He recommended that all students be encouraged to take up engineering after the completion of high school. President Gunlock spoke of the national need for unity among engineers and of the committees appointed by the N.S.P.E. for that purpose. In closing Mr. Gunlock spoke of the cooperation between the State Board of Registration and Education and the Illinois Society in regards to non-registered engineers doing work in Illinois.

Regular meeting of Kewanee Chapter, I.S.P.E., was held in the dining room of the Fort Armstrong Hotel, Rock Island, on April 24, 1951. Meeting was called to order by Vice-President Cliff Missman in the absence of President Lee Osborne.

After introductions around the table the secretary read the minutes of the last meeting. The next order of business was the reading of the ballot on the proposed change in name of this Chapter. The secretary read the vote which was as follows: Kewanee, Triangle, West Central, and many others which members took advantage of in the write-in space on the ballot. After much discussion it was moved by Doug Spicer that the change in name be resubmitted to the membership again, which would give the membership a chance to vote on some of the other names submitted. The motion further stated that if 51% majority failed to carry the two highest would be acted upon at the next regular meeting. Motion carried.

Chapter Representative Louis Papmeier gave a report on the proposed change of date in the I.S.P.E. annual meeting. Moved by Spicer that this Chapter go on record as approving the annual meeting where it is now. Motion carried.

Past President John Fulper introduced the speaker of the evening, Mr. E. M. Stanley, of the Stanley Engineering Company of Muscatine, Iowa. Mr. Stanley's talk was on the Unity of Engineering Profession. His talk dwelled on what he thought was the answer to a successful Engineering Society and gave us as an example the Iowa Engineering Society of which he is past president. He told how it was organized and operated. Mr. Stanley made no reference to the Iowa Society joining National Society.

Meeting closed at 10:00 p.m. Attendance, 45.

The May meeting of Kewanee Chapter, I.S.P.E., was held in the dining room of Harbor Lights, Galesburg, Illinois, on May 15, 1951. Meeting was called to order by Mr. Louis Papmeier, Chapter Representative, who, in the absence of President Lee Osborne and Vice-President Cliff Missman, presided. Minutes of the last meeting were read and approved after introductions around the table.

Past President John Fulper called attention to the proposed anti-firearm law being before the Illinois legislature today in Springfield. Past President Bronson was called upon to give the facts on the new Boiler Code law now before the legislative bodies in Springfield, in which he gave his approval to the proposed law. Past President Bronson and State Vice-President Doug Spicer recently appeared before the state legislature committee on the proposed code.

State Vice-President Spicer and Chapter Representative Louis Papmeier gave a few remarks on the recent meeting of Capital Chapter, in which many of the Illinois lawmakers were in attendance. Both gave their approval of this kind of a meeting.



Colonel R. T. Rayburn made a few remarks on the civil defense committee of which he is a member and the inefficient manner of which the general defense committees were appointed by the civil authorities. Moved by Spicer and seconded that the civil defense committee be instructed to meet with the executive committee to map out some further plan on defense. Motion carried.

The secretary gave a report on the recent ballot on the proposed change in name of the Chapter. Only two names came with the required number of votes, namely, Triangle and West Central. After some discussion the ballot was taken which resulted in the name West Central being chosen as the new name for the Chapter. This name will be submitted by our Chapter Representative, Mr. Louis Papmeier, to the State Board of Direction for approval.

Mr. A. M. Sorensen introduced Mr. E. D. Quirke who gave a talk on early engineering history as he saw it during his early manhood in England. Mr. Quirke's talk was enjoyed by all as it gave a picture of some of our early inventions which have since been responsible for the rapid advance of civilization.

Meeting closed at 10:15 p.m. Attendance, 35.

C. F. BATES, *Secretary*

## Capital Chapter

The Capital Chapter held a meeting on June 26, 1951. After a dinner at "The Mill," 33 members and guests enjoyed a very interesting color movie, "The Story of Aluminum."

Al Frost, who has been one of the main cogs in our chapter activities the last several years, was introduced by President Hudson. Al is going to "The Defense Electric Power Administration" in Washington, D. C., on a leave of absence, and admonished us to keep up the good work of Capital Chapter. J. P. Murphy presented "Al" with a "measuring tape" and a "peace pipe" to help him with his work in our capital.

The chapter then settled down to a long-awaited business meeting. Springfield Engineers Club invited all members interested to make a trip to Alton on July 21st to inspect the Owens-Illinois Glass Company, attend a ball game and Municipal Opera.

Jim Williams, of the civic affairs committee, started the committee reports with a summary of his committee's activity in regard to "Air Pollution" and "City Planning." Help is needed in making a study of the conditions that exist in Springfield. President Hudson reported for Dave Abbott on City Planning part of this committee. Promotional work is still being undertaken.

H. F. Lund reported for J. A. Parker, chairman of the resolution and constitution committee, on our new chapter constitution, explaining it in detail. After a discussion, J. P. Murphy moved that the proposed Constitution, as approved by the State Board of Direction, be approved. Motion seconded by J. Walter Marquardt. Motion carried by 24 yeas and 0 no's.

Mr. Marquardt suggested that amendments be made in regard to the date of election and the requirement of national membership in order to hold a chapter office. Suggestions were referred to the executive committee for action.

William Russell reported for the legislative committee and recommended that a letter of appreciation be sent to Representatives Willett and Bob Wallace for their efforts in our behalf during the last session of the legislature. Mr. Marquardt moved that this be done and the motion was seconded by H. F. Lund. Motion carried unanimously.

Harry Cordes, membership chairman, requested replies from members on prospects that have been given them. Question was raised about eligibility of certain prospects for N.S.P.E. membership and the question was referred to the executive committee for study and report.

Program Committee Chairman Chenewith reported that the July meeting would be conducted by the "E-I-T's." No further business arising, the meeting was adjourned at 10:00 p.m.

LESLIE F. RYBURN, *Secretary*

## Minutes of July 31 Meeting of Capital Chapter, I.S.P.E. Capital Chapter

The July 31, 1951, meeting, Ladies Night, was conducted by the E-I-T's at the Palm Room of the Abraham Lincoln Hotel.

After the introduction of the acting officers by Al Kessel, the E-I-T's took over, headed by Sherril Nutt, President; Harry Beams, Vice-President; R. A. Sandval, Secretary; and Carl Wieland, Treasurer. Acknowledgment of the ladies, followed by an introduction of each by their escorts, was first on the agenda, after which the minutes of the June 26th meeting were read.

The acting treasurer gave a report on the financial status of the chapter in an attempt to justify the 35-cent assessment for coffee and doughnuts.

Announcement of the Rock River Chapter picnic, with tickets available through Les Ryburn, was followed by an invitation to attend the Sept. 14 meeting of the Dixon Chapter at which Mr. Gunlock is going to be present.

The panel of E-I-T acting officers met previous to the meeting and appointed Sherril Nutt as E-I-T Representative to the Executive Board, with Harry Beams as alternate. There being no objection, the appointment was entered as read.

Jim Williams started the committee reports with an interesting summary of the efforts of the Civic Affairs Committee, and warned us all that we may well be called on to help in collecting data for their air-pollution study.

Bill Russell reported for the Legislative Committee and brought us up to date on final action on the various bills which affect us. He also noted that the Legislative Party was very well received in that it extended goodwill to the Legislature and to other chapters.



There being no old business that could not be put off until the regular meeting, the acting president called for important new business. A suggestion from the floor about the violation of the Structural Engineers' Law with reference to the grain elevator at Virden was referred to the committee on ethical practices for investigation.

There being no other business, the meeting was turned over to Harry Beams, acting vice-president and entertainment chairman, who presented three interesting movies, after which refreshments were served, and an invitation to play cards was extended.

R. A. SANDOVAL, *Acting Secretary*

### Joliet Chapter

The Joliet Engineers' Club held its regular meeting Tuesday, September 18, at Little Jack's Restaurant. The meeting was attended by 23 members and nine guests. Following the supper meeting at 6:30 p.m., Mr. William S. Gray, president of the club, held a business meeting. The minutes of the last meeting, which was held on May 15, were approved by W. K. Waltz and motion was seconded by C. M. Ginter and passed by unanimous vote.

Mr. James A. Hanley, former resident agent in Joliet for the F.B.I., gave a very interesting talk on the background and functions of the F.B.I.

The meeting was adjourned at 9:56 p.m.

WILLIAM S. CHANEY, *Secretary*

The regular meeting of the Joliet Engineers' Club was held Tuesday, April 17, 1951, at Little Jack's, with 17 members and two guests present.

Following dinner, the meeting was called to order at 8:15 p.m. by President William Gray. Vice-President F. H. Tittsworth served as Secretary and Treasurer.

The minutes of the March meeting were read and approved.

The Treasurer's report was read, showing a balance of cash on hand of \$74.76.

There being no committee chairmen present, no further business was presented.

President Gray introduced the speaker, V. E. Gunlock, President I.S.P.E., and Commissioner, Department of Subways and Superhighways, City of Chicago, who presented a very interesting talk on the plans and progress of the system of super highways in Chicago. He mentioned in some detail the volume of traffic to be handled and many of the problems encountered.

Meeting adjourned at 9:40 p.m.

F. H. TITTSWORTH, *Acting Secretary*

### DuKane Chapter

The regular meeting was held Sept. 20, 1951, at the Lion Inn with an excellent swiss steak dinner being enjoyed by 29 members and guests.

After introduction of guests, the minutes of the last meeting and the treasurer's report were read and approved.

Chapter Representative Rob Roy spoke briefly on the various plans for unification. Engineer Cash brought up the necessity for analyzing the proposed amendments to the constitution, but since the time is now too short for group analysis, each member was urged to study the proposed amendments carefully before voting. President Bateman called a board meeting to be held at the Red Lion on Thursday, September 27th, at 6:30 p.m.

Upon a motion by Engineer Roy, seconded by Secretary Booth, those present stood at attention out of respect to the memory of the late Engineer A. L. Webster, a member of DuKane Chapter and a past chapter vice-president and president.

President Bateman introduced Father Jerry Brinkman, Catholic Chaplain at Stateville Penitentiary, as speaker of the evening. He is very proud of the aims and accomplishments of the northern Illinois penal system. He also pointed out that the average citizen avidly follows news items concerning the apprehension and sentencing of a criminal but loses interest when he gets out of the papers and behind the walls. Disparity between prosecuting and defense attorneys was cited because when the defendant is assigned a public defender, he is usually at a disadvantage from the beginning of his trial. This feeling follows the criminal from the court room behind the prison bars.

The State of Illinois pays not one red cent for religious and educational rehabilitation, but furnishes only the buildings. All expenses are paid from profits from the commissaries. Under the provisions of a law passed in 1873, the released convict gets a new suit and \$10.00. Beginning Oct. 1st of this year, each man will get at least \$25.00. The ex-convict has trouble getting a job, and at present is barred from getting a job involving government contracts. Warden Ragen, with only meager funds, has set up a vocational training program.

Father Brinkman cited several instances, some of them humorous, of the peculiar code of honor existing among the convicts.

The percentage of repeat commitments is too high and the penal system will have to improve materially to prevent this. The task lies not only with those in direct contact with the prisoners, but on outsiders as well.

At present, \$26,000,000 is provided every two years for the operation of our state prisons and the Department of Public Safety. More, and better, help is needed to produce the desired results.

In the vocational set-up, free correspondence courses are provided by several out-of-state colleges, including the University of Pennsylvania, and the University of Iowa, but not from the University of Illinois. Yet the University of Illinois has an extensive system of correspondence courses.

Father Brinkman's talk was very enlightening and we were fortunate to have had him with us.

GEORGE M. BOOTH, JR., *Secretary*

(Continued on page 10)



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## Kewanee Chapter

The September meeting of the Kewanee Chapter, Illinois Society of Professional Engineers, was held at Hotel Kewanee, September 18, 1951.

Meeting was called to order by President Lee Osborne, who called upon R. J. Schaffhausen to introduce the members and visitors. Secretary read the minutes of the last meeting which were approved. Some discussion was made about the next meeting which was scheduled for Galesburg and due to the president being able to obtain a good speaker for October and his topic being of more interest to engineers in the Quad-city group, Chairman Fulper announced the October meeting would be held in Rock Island. The November meeting then would be held in Galesburg.

It was moved by Spicer and seconded by Fulper that the December meeting be held in Kewanee and it be Ladies Night with the annual election of officers to be taken care of at the January meeting.

Chapter Representative Louis Papmier made a few remarks on the coming drive for new members by the state office and of the plan to amend several by-laws at the

annual meeting which are in need of alteration and elimination.

Some discussion was made regarding the change in name of this chapter. State Vice-President A. D. Spicer explained that in our balloting so far all we had accomplished was asking permission of the State Board of Directors to change the name and we would have to go over the balloting again by mail if we desired to change the name. After more discussion it was moved by Spicer and seconded by Weber that the question of change in name of the chapter be tabled. It was carried with only one dissenting vote.

The chapter was informed that Col. R. T. Rayburn of the Civil Defense committee has been promoted to his company's home office at Springfield and would make his home in that city. President Osborne appointed Robert J. Schaffhausen to be a member of this committee.

Mr. John Fulper, chairman of the program committee, introduced Mr. G. F. Murphy of the American Cities Bureau, who gave an interesting talk on what the American Hospital situation is in this country. His talk featured with examples of what has been accomplished in



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the field of hospitals and medicine and what was to be expected if these things are to continue. He clearly showed that our educational and hospital facilities would have to keep step with the rapid pace set by our life expectancy being increased as rapidly as it is. Mr. Murphy's talk was well taken by all who were in attendance.

Meeting closed at 9:35 p.m., with 26 members present.

CLAUDE F. BATES, *Secretary*

**Central Illinois Chapter**

The June meeting of the Central Illinois Chapter of the Illinois Society of Professional Engineers was held on Thursday evening, June 28, 1951, in the Staley Club house, with a dinner meeting at 6:30 p.m. There were 47 members and guests present, including the entire membership of the Decatur City Council. Our new membership Directories were distributed to all present at this meeting.

President Herman Dorn opened the business meeting and, in order to give the City Council members as much time as possible for their discussions, very little chapter business was transacted. He called upon City Water Commissioner Homer L. Chastain, who is one of our chapter members, to introduce each of the Council members in turn.

Our new mayor, Dr. Robert E. Willis, was first introduced and he gave us a very complete picture of the

present financial problems facing the city administration along with some possible answers to be considered. It is very probable that a referendum will be taken in the near future, and the possible continuation of the city ownership of the City Hospital is being given serious study.

Water Commissioner Homer L. Chastain explained some of the new additions now under way and others that will be made to the waterworks and the distribution system in the near future.

Health Commissioner Cody R. Holmes discussed the problems of the fire and police departments, safety and building inspection and public health. He would like to see the Morgan Street fire station reopened, but if additional funds are not forthcoming, the present service must be reduced.

Street Commissioner Lyle Kirby stated that the people are expecting more and more from his department but he is very much in need of some new equipment if he is to give the city better service. A cinder loader would help fix the slippery streets after ice storms much faster than the present hand method.

The discussion period which followed these talks was entered into with much enthusiasm and some helpful suggestions were brought out. Our problems are serious ones and demand careful consideration by every citizen.

The meeting adjourned at 9:45 p. m.

FLOYD E. TROXEL, *Secretary*



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## POSITIONS AVAILABLE

**CIVIL ENGINEER, C.E.** Age: 20-40. Prefer man with minimum 5 years' design experience. Will consider recent graduate ranking in upper 3rd of class. Knowledge of structural or sanitary engineering. Duties: design of sanitary engineering systems and plants, specifications' writing, supervision of construction negotiations with clients and contractors. Salary \$3600-\$6000. For a firm of consulting civil engineers. Location: Illinois. T-8196

**HYDRAULIC DEVELOPMENT ENGR., M.E.** Age: 35-55. 10 years' exp. in centrifugal pump design, particularly in non-clog types. Duties: design and application of centrifugal pumps and supervision of draftsmen in design section. For a manufacturer of pumps. Salary: Open. Location: Chicago. P-8212

**ASSISTANT MECHANICAL ENGINEER, M.E.** Age: 25-35. Up to 5 years' exp. maintenance and equipment design in mining or processing fields. Company may consider recent graduate. Knowledge of report writing. Duties: assist chief mechanical engineer on special assignments for mining and chemical company. Assignment on maintenance or engineering projects and may call for some design on the board. Salary \$300-\$500 month. Considerable traveling. Location: Chicago. R-8220

**GENERAL SUPERINTENDENT.** Age: 35-45. 4-5 years' exp. in shop management in metal working plants. Knowledge of modern manufacturing methods. Duties: supervising production standards, processes, training and production machinery. Company may negotiate fee. Metal products manufacturing. Salary: \$10,000. Location: Illinois. R-8159

**DRAFTSMAN.** Duties: Working up test data and plotting, some drafting on mechanical equipment for railroads. Some illustration work for publications. Salary: \$332 month. Location: Chicago. R-8160

**INSTRUCTOR.** Educ.: BS, IE or ME. Age: 30 or more. 1-2 years' exp. in industrial engineering and some teaching experience. Know.: Organization and management safety, human relations, and general industrial engineering. Duties: teaching industrial engineering in technical school. Opportunity to work for higher degree. Location: No. Indiana. Salary: \$4000-\$4500—10 months. R-8161

**TOOL AND DIE DESIGNER.** 10 years' or more experience small tools and dies for vending machines. Design tools, dies, and

fixtures. Age: 50. Salary: \$85-\$110 week. Location: Chicago. R-8162(a)

**DEVELOPMENT ENGINEER, M.E. or E.E.** 50 years of age. 5 plus years' exp. development of vending machines. Knowledge of condensing units and refrigeration. Duties: Development of vending machines, some board work. Salary: Up to \$150 a week. Location: Chicago. R-8162(b)

**DRAFTSMAN.** Age: 50. 2 plus years' experience drafting and layout vending machines. Knowledge of small mechanical parts. Duties: Board on vending equipment parts. Salary: Up to \$95 week. Location: Chicago. R-8162(c)

## ENGINEERS AVAILABLE

**PLANT ENGINEER or BUILDING SUPT.** 36. Fourteen yrs. heating, electrical, refrigeration, construction, air conditioning, building maintenance and bldg. service. \$10,000. Chicago. Will travel. 177-PE

**STRUCTURAL DESIGNER & DRAFTSMAN, M.S.** Struct. Eng. 27. Three yrs. making engineering cost estimate, specifications, contracts and incidental design on bridges, roads and appurtenances; desires work on reinf. concrete or struct. steel design. 178-PE

**RECENT GRAD.** C.E. 22. Fifteen mos. with surveying parties as rodman, axman, tapeman, stakeman and instrument man. Interested in design construction, city engineer, field engineer and office engineer. \$3600. Chicago and vicinity. 179-PE

**COAL PURCHASING CONSULTANT,** Min. Eng. 52. Twenty yrs. experience on various types of coals, steam, domestic, metallurgical, bunker fuel, special purpose coal, etc. \$6000. Middlewest. 180-PE

**MECHANICAL ENGINEER, M.E.** Registered Illinois P.E. 31. Ten yrs. food industries, plant layout, refrigeration, piping, pumping, heating and cooling design, some machine and structural design. Desires plant or process engineering. \$7500. Midwest, South or West. 181-PE

**PRODUCTION and DESIGN ENGINEER, M.E.** Age: 30. Illinois License. Eight yrs. exp. in metal working industries. Handled design, development, factory problems, cost reductions, waste control on phonograph drives, shaded pole motors, heating elements, containers. \$130 per week. Chicago. 182-PE

**PROCESS PRODUCTION ENGINEER, M.E.** 30. Two and a half yrs. plant engineering, chemical company. Two yrs. assistant plant engineer hot water heater manufacturing. Seven mos. sales power plant equipment. Ten mos. design and calculations

aircraft landing gear. \$6000. Midwest. 183-PE

**MANAGEMENT ENGINEER or SUPT., M.E.** 36. Five yrs. industrial and plant engrg. baking company. One yr. production specialist—Government. Two yrs. plastic engineer and designer. One yr. estimator and draftsman special machinery. \$7500. Chicago. 184-PE

**DESIGNER or MUNICIPAL ENGINEER, C.E.** 31. Five yrs. designing and checking plans on reinforced concrete for sewers and pumping station. Six mos. liaison engineer for aircraft manufacturer. Eight mos. designing jigs and fixtures. \$5200. Midwest. 185-PE

**CHEMICAL ENGINEER, Ch.En.** 27. Six months control chemist boiler waters; oil refinery. Ten months control engineer trainee control laboratory-plaster company. \$4200. Middlewest. 186-PE

**PETROLEUM ENGINEER, B.S.** 28. Eight mos. trouble shooting television repair. Research and development. Three months testing oil wells, petroleum producers. Five mos. sampler working faces of drifts, copper ore producers; nine mos. salesman—auto insurance. \$3800. Midwest. 187-PE

**FIELD ENGINEER, C.E.** 26. Two yrs. exp. in heavy construction; six mos. on school buildings; eighteen mos. steel mill constr. including cold strip mill, blast furnace and warehouses. Layout supervision and construction expediting. \$4800. Midwest. 188-PE

**EXPORT & IMPORT MANAGER, E.E.** 36. One yr. and a half supervise export activities—Decaleomania. Four yrs. mgr. technical service div.—field service problems—export. Five mos. dev. eng. electro-medical equip.—Electro-Medical Equip. Three yrs. sales eng. correspondence and headquarters service X-Ray and Electro-Medical. One yr. and a half telephone eng.—Instal. of tel. switchboards. \$6000. Middlewest. 189-PE

**PURCHASING, M.E.** 39. Eight months' purchasing expediting condensers, Fan Blower and Heater mfr. Six mos. purchasing agent supplies, Geographical Globe Mfr. Three yrs. eight mos. asst. purch. agent, mfr. sprayers and farm equip. One yr. three mos. asst. purch. agent, purchased supplies mfrg. refrigerators. \$4200. Chgo. 190-PE

**SALES ENGINEER, M.E.** 25. One yr. two mos. sales eng. temperature controls. Three mos. assembly worker mfg. domestic hot water heaters. Three mos. gas welder stove plates, mfg. gas ranges. Three mos. construction laborer. \$375 mo. Middlewest. 191-PE